

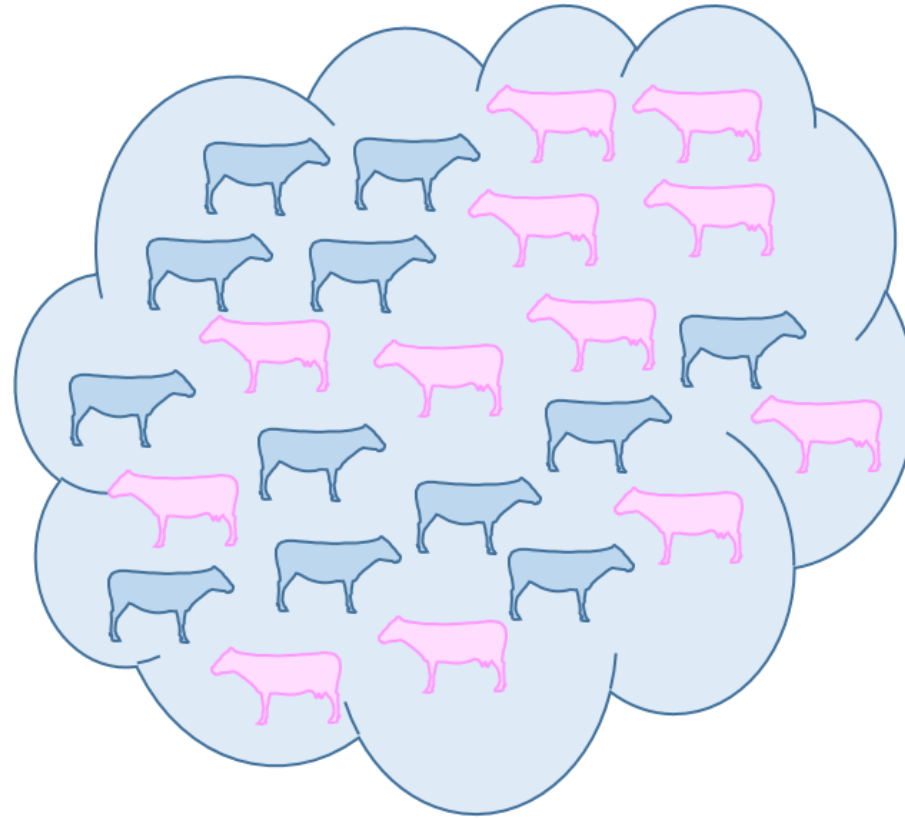
# Optimizing Your Breeding System Using Artificial Intelligence

**Zhi Kang Loh, Julius van der Werf, Sam Clark**

School of Environmental and Rural Science, University of New England

- How do you select your animals in your breeding program?

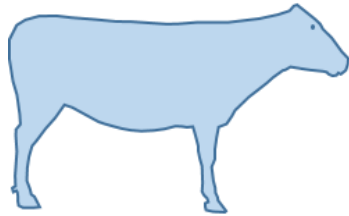
The best animals?



Conventional  
Genomic  
Selection?

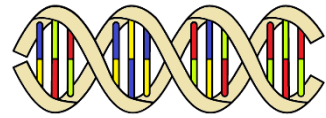
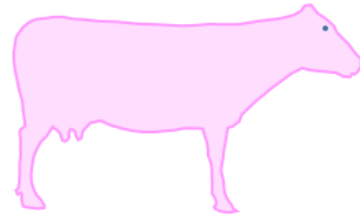
More opportunities for you!!

- Each animal have their own individual values...
- But they also have their own matching values...



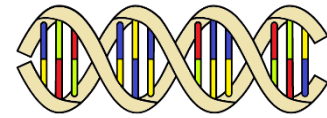
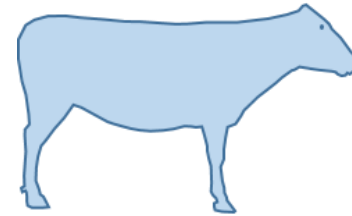
Individual values: +140\$

Matching values: +60\$



Individual values: +30\$

Matching values: +130\$

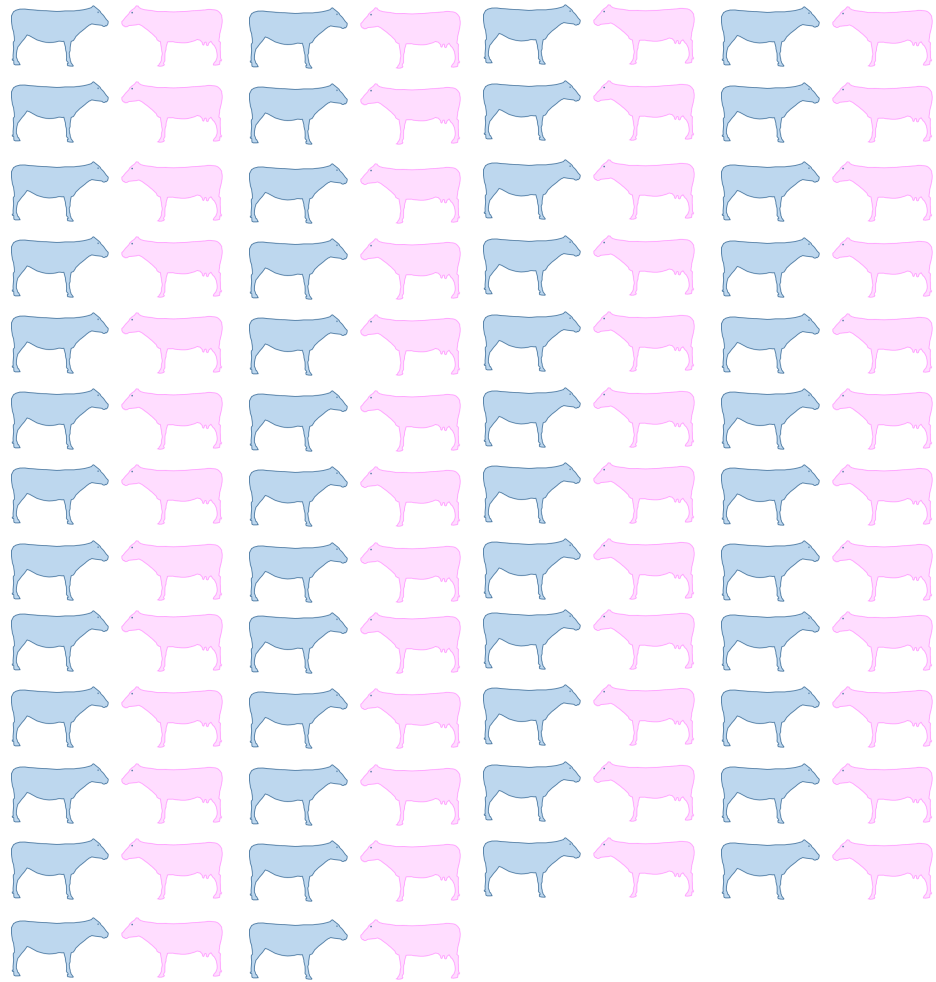


Individual values: -50\$

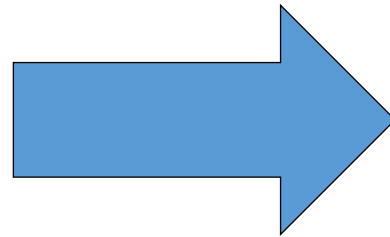
Matching values: -20\$

...and conventional selection is not going to capture the matching values

- Finding the best matching values is not easy however...



Evaluating all matching values...

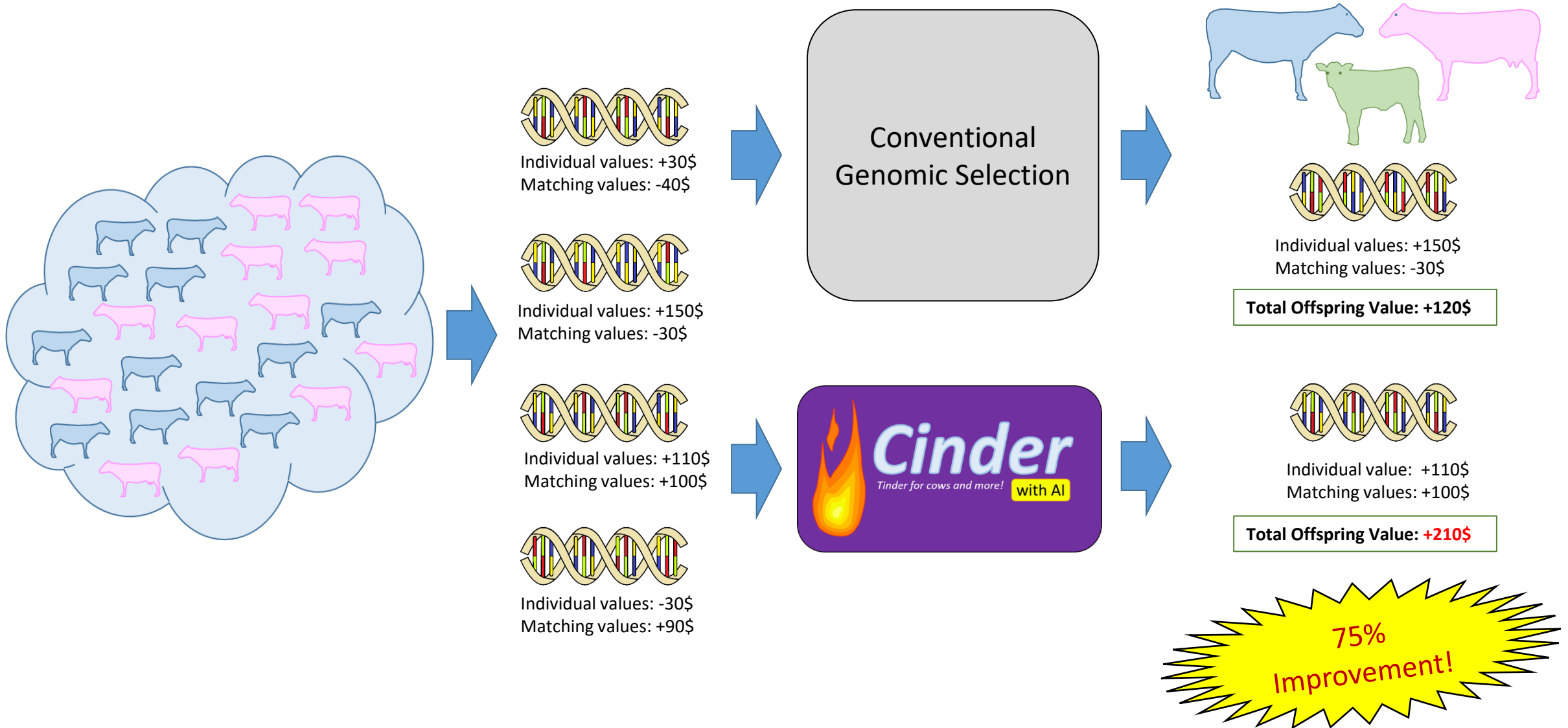


But worry not! Artificial intelligence comes to the rescue...

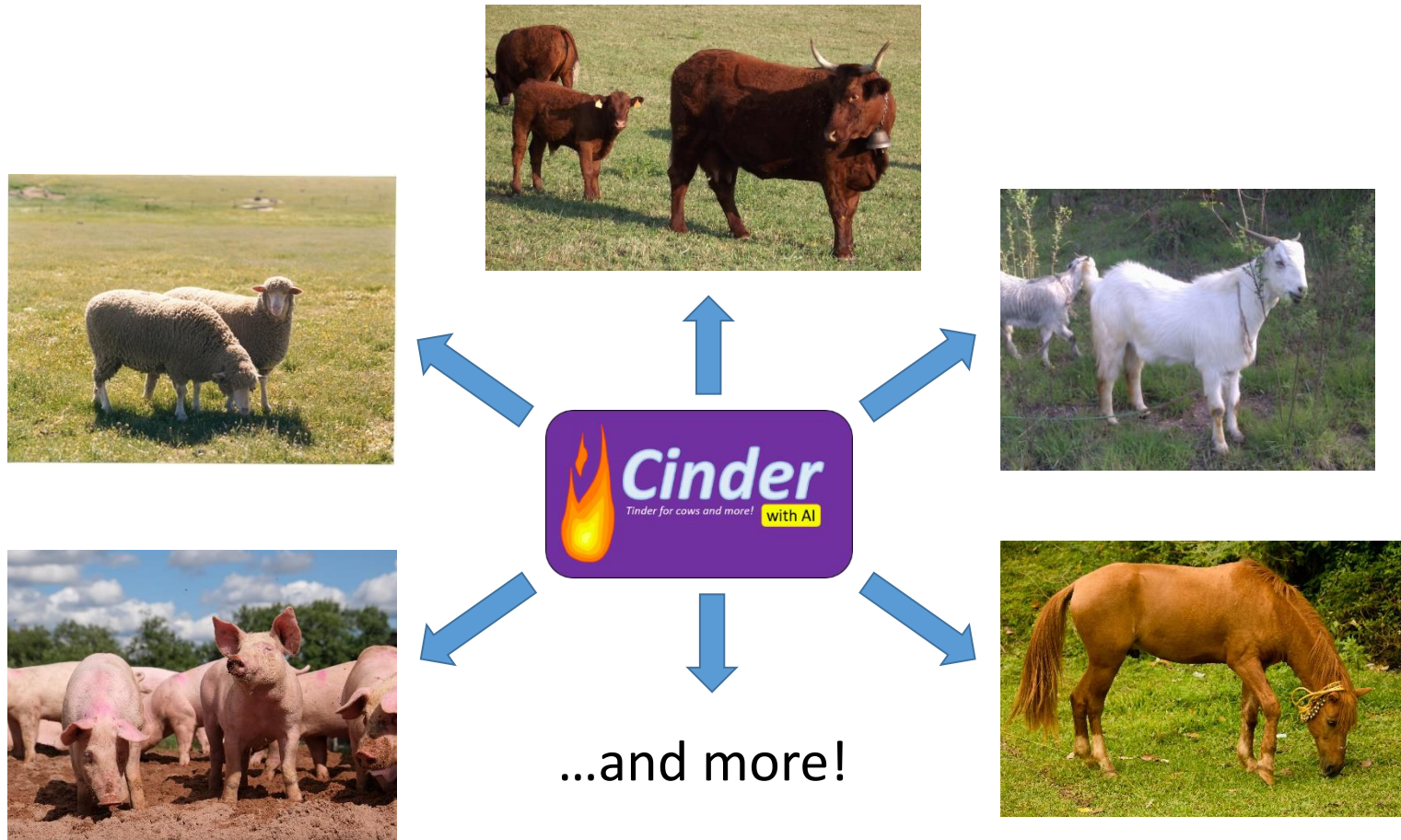
If designing artificial intelligence is out of your league, worry not!  
I've package the artificial intelligence for you...



# With the power of artificial intelligence, you can find the best matching values



And, of course, Cinder is not just limited to cow...



Thank you !

